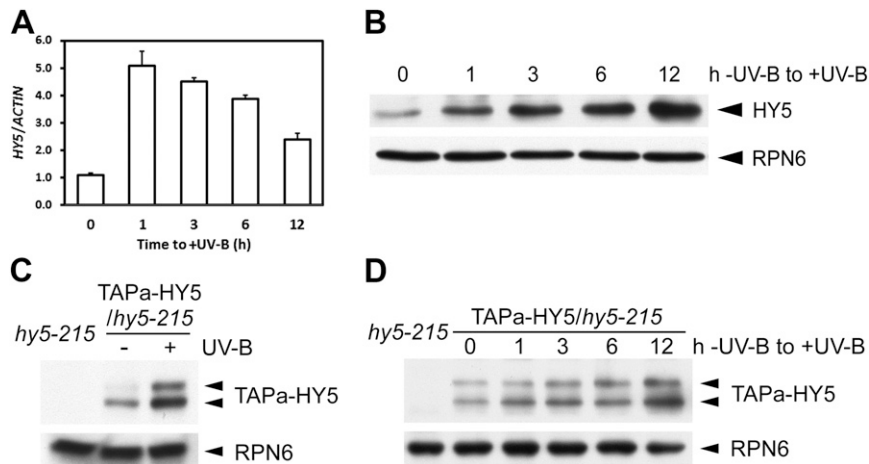
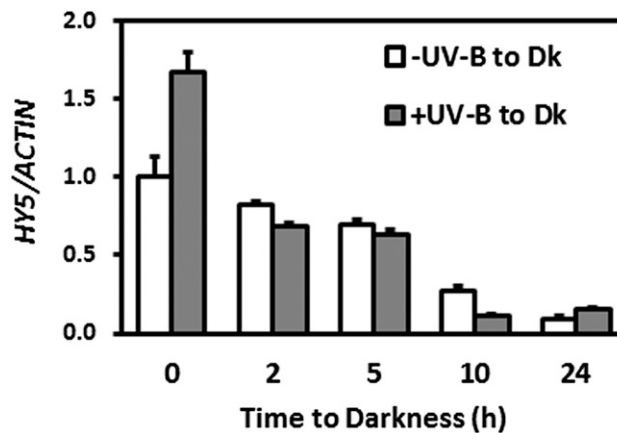


# Supporting Information

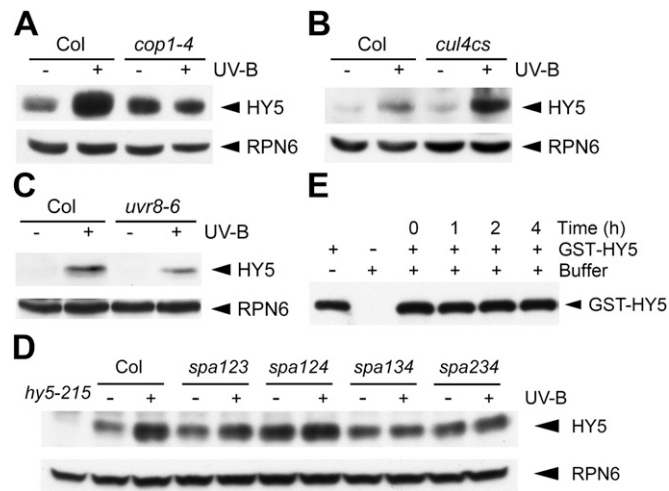
Huang et al. 10.1073/pnas.1316622110



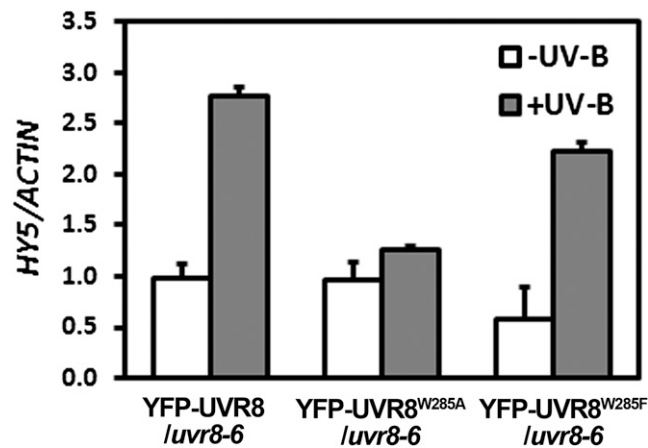
**Fig. S1.** (A and B) The mRNA (A) and protein (B) levels of ELONGATED HYPOCOTYL 5 (HY5) in response to photomorphogenic UV-B irradiation in Columbia (Col) seedlings grown under -UV-B for 4 d and then transferred to +UV-B for the indicated time. REGULATORY PARTICLE NON-ATPASE 6 (RPN6) is the loading control. (C and D) The effect of photomorphogenic UV-B on HY5 protein accumulation. Immunoblot analysis using 4-d-old alternative tandem affinity purification tag (TAPa-HY5)/*hy5-215* seedlings grown under -UV-B and +UV-B (C) or transferred from -UV-B to +UV-B for the indicated time (D).



**Fig. S2.** The mRNA levels of *HY5* in Col seedlings grown under -UV-B or +UV-B for 4 d and then transferred to darkness for the indicated time.



**Fig. S3.** The protein levels of HY5 in 4-d-old -UV-B- and +UV-B-grown seedlings of Col, *cop1-4* (A), *cul4cs* (B), *uvr8-6* (C), and *spa* (D) mutants. (E) Immunoblot analysis of recombinant GST-HY5 in the cell-free degradation buffer without cell extracts at 22 °C for the indicated time.



**Fig. S4.** The mRNA levels of *HY5* in 4-d-old -UV-B- and +UV-B-grown seedlings of YFP-UV RESISTANCE LOCUS 8 (UVR8)/*uvr8-6*, YFP-UVR8<sup>W285A</sup>/*uvr8-6*, and YFP-UVR8<sup>W285F</sup>/*uvr8-6*.

**Table S1. Summary of primers used in this study**

Assay	Construct	Primer ID	Primer sequence
Generation of transgenic plants	pF3PZPY122-UVR8	UVR8 5' KpnI	ATACGGTACCATGGCGGAGGATATGGCT
	pJIM 19 (KAN)-FLAG-UVR8	UVR8 3' XhoI SacI	ATACCTCGAGGAGCTCTCAAATTCGTACACGCTT
	pEarleyGate 104- <i>proUVR8</i> -YFP-UVR8	proUVR8 5' AflIII	ATACCTTAAGGTATATAGTACTTCCAATGGC
		proUVR8 3' AatII	ATACGACGTCATCACAGTTGCAGTTTTTACAAG
	pEarleyGate 104- <i>proUVR8</i> -YFP-UVR8 <sup>W285A</sup>	UVR8 W285A-F	TCTCCCAGATTCGGGAGGTGCGAGACATACAATGGCATTGACTT
		UVR8 W285A-R	AAGTCAATGCCATTGTATGTCTCGCACCTCCCGAAATCTGGGAGA
	pEarleyGate 104- <i>proUVR8</i> -YFP-UVR8 <sup>W285F</sup>	UVR8 W285F-F	TCTCCCAGATTCGGGAGGTTTTAGACATACAATGGCATTGACTT
qRT-PCR		UVR8 W285F-R	AAGTCAATGCCATTGTATGTCTAAAACCTCCCGAAATCTGGGAGA
		CHS-F	ACGTCACGTGTTGAGCGAGTATGG
		CHS-R	GAGGAACGCTGTGCAAGACGACTG
		At4g15480-F	AGTCGGGTTTATCGTTCT
		At4g15480-R	ATCCCTTACCTTTAGCAC
		ELIP2-F	CACCACAAATGCCACAGTCT
		ELIP2-R	TGCTAGTCTCCCGTTGATCC
		HY5-F	TCAGAACGAGAACCAGATGCTTAG
		HY5-R	TTAGAACCACCACCACCTCCTC
	Yeast three-hybrid	pGADT7-COP1 (no AD)	Y3H COP1 5' KpnI
Y3H COP1 3' EcoRI			ATACGAATTCTCACGCAGCGAGTACCAGAACT

AD, activation domain; COP1, CONSTITUTIVE PHOTOMORPHOGENESIS 1.